

ABSTRACT

The corn harvesting unit and the attachment modifications for connection to the threshing unit provide an improved flow of material from the row to the threshed grain in the combine.

These modifications of structure and the resultant spatial changes to the variety of the conveying systems used from the row to the grain tank of the combine result in a novel and more efficient harvesting machine. The novel spatial relationship between the powered and the unpowered conveying systems moving in different directions will permit improved flow and flow rate with less plugging while using less power. This invention also provides a smooth uninterrupted flow of material from the row unit to the cross auger, thence through the dead space (energy wise) to the retrieving area of the feeder house. More efficient harvesting at higher speed is possible as the amount of material is lifted through a lesser angle of the inclined plane from ground to thresher unit.